

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		S80 and (ratio with \$1erl\$2)	US-PGPUB; USPAT	OR	ON	2007/06/15 03:39
		S80 and ratio with \$1erl\$2	US-PGPUB; USPAT	OR	ON	2007/06/15 03:38
		ratio with \$1erl\$2	US-PGPUB; USPAT	OR	OFF	2007/06/15 03:38
L3	3	("5268834" "6195430" "6532454").PN.	USPAT	OR	OFF	2007/06/17 16:58
L4	4	("5009472" "5353348" "5365583" "5668871").PN.	USPAT	OR	OFF	2007/06/17 17:00
L5	1576	379/406.01-406.16.ccls.	USPAT	OR	OFF	2007/06/17 17:02
L6	1	5 and "non\$linear spectral subtraction"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/17 17:03
L7	329	5 and ((background environmental) with noise)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/17 17:03
L8	0	5 and \$4phone with gps	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 17:03
L9	795	381/71.1-71.14.ccls.	USPAT	OR	OFF	2007/06/17 17:03
L10	0	9 and "non\$linear spectral subtraction"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/17 17:03
L11	14	9 and 5 and ((background environmental) with noise)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/17 17:03

## EAST Search History

L12	0	9 and \$4phone with gps	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 17:03
L13	223	381/66.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 17:03
L14	0	9 and 5 and fail\$safe	USPAT	OR	OFF	2007/06/17 17:04
L15	10	(echo adj cancel\$5) and fail\$safe	USPAT	OR	OFF	2007/06/17 17:04
S5	6	("5268834" "6195430" "6532454").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:45
S6	2014	(car vehicle) and speaker and amplifier and phone and (cd dvd tape tuner)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:46
S7	86	(car vehicle) and (speaker same amplifier same phone same (cd dvd tape tuner))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 05:02
S8	31	(car vehicle) and (speaker with amplifier with phone with (cd dvd tape tuner))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:52
S9	4	S8 and echo	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:47

## EAST Search History

S10	31	(car vehicle automobile) and (speaker with amplifier with phone with (cd dvd tape tuner))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:52
S11	1889	audio with mixer with (amplifi\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:57
S12	238	(audio with mixer with (amplifi\$5)).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 01:14
S13	44	(audio with mixer with (amplifi\$5)).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 09:58
S14	12	(audio with mixer with (amplifi\$5) and (car vehicle automobile)).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 10:00
S15	10256	(echo with cancel\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 03:12
S16	91	(echo with cancel\$3 with cascad\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 02:05

## EAST Search History

S17	0	S16 and ( (noise echo) with suppress\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 01:17
S18	0	S16 and ( (noise echo) same suppress\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 01:17
S19	25	S15 and ( (noise echo) same suppress\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 01:17
S20	6	S15 and ( (noise) with suppress\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 01:17
S21	33	(echo with cancel\$3 with cascaded\$4) and (noise with (filter\$3 suppress\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 02:34
S22	14	"non\$linear spectral subtraction"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/17 17:00
S23	347	nlss	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 02:45

## EAST Search History

S24	1	S15 and S23	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 02:35
S25	3	S23 and (adaptive with filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 02:37
S26	3	S23 and (voice with noise)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 02:43
S27	27	S23 and ((background environmental) with noise)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/17 17:01
S28	2	nlss with noise	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 02:45
S29	0	S23 and ((background environmental) with noise with suppress)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 02:53
S30	78	S15 and((background environmental) with noise with suppress)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 02:58

## EAST Search History

S31	1	S15 and((background environmental) with noise with suppress with advantage)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 02:59
S32	95	(echo with cancel\$3) same ((background environmental) with noise with suppress\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 03:17
S33	38	S32 and microphone and speaker	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 03:17
S34	145	(echo with cancel\$3) same ((background environmental) with noise with (suppress\$4 filter\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 03:18
S35	72	S34 and microphone and speaker	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 03:19
S36	158	(echo with cancel\$3) same ((background environmental) with noise with (suppress\$4 filter\$4 remov\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 03:19
S37	79	S36 and microphone and speaker	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/14 03:19

## EAST Search History

S38	123460	"455"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/14 18:01
S39	2084	S38 and \$4phone with gps	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/14 18:02
S40	31	S38 and (\$4phone with gps with advantage)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/14 18:03
S41	31	(car vehicle) and (speaker with amplifier with phone with (cd dvd tape tuner))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S42	4	S41 and echo	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S43	12	(audio with mixer with (amplifi\$5) and (car vehicle automobile)).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S44	44	(audio with mixer with (amplifi\$5)).ti.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33

## EAST Search History

S45	31	(car vehicle automobile) and (speaker with amplifier with phone with (cd dvd tape tuner))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S46	2022	(car vehicle) and speaker and amplifier and phone and (cd dvd tape tuner)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S47	86	(car vehicle) and (speaker same amplifier same phone same (cd dvd tape tuner))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S48	6	("5268834" "6195430" "6532454").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S49	238	(audio with mixer with (amplifi\$5)).ab.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S50	1890	audio with mixer with (amplifi\$5)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S51	10256	(echo with cancel\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33



## EAST Search History

S52	25	S51 and ( (noise echo) same suppress\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S53	14	"non\$linear spectral subtraction"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S54	6	S51 and ( (noise) with suppress\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S55	347	nlss	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S56	1	S51 and S55	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S57	33	(echo with cancel\$3 with cascaded\$4) and (noise with (filter\$3 suppress\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S58	3	S55 and (voice with noise)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33

## EAST Search History

S59	91	(echo with cancel\$3 with casc\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S60	3	S55 and (adaptive with filter\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S61	2	nlss with noise	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S62	27	S55 and ((background environmental) with noise)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S63	0	S59 and ( (noise echo) with supress\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S64	0	S59 and ( (noise echo) same supress\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S65	0	S55 and ((background environmental) with noise with suppress)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33

## EAST Search History

S66	78	S51 and((background environmental) with noise with suppress)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S67	95	(echo with cancel\$3) same ((background environmental) with noise with suppress\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S68	158	(echo with cancel\$3) same ((background environmental) with noise with (suppress\$4 filter\$4 remov\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S69	1	S51 and((background environmental) with noise with suppress with advantage)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S70	145	(echo with cancel\$3) same ((background environmental) with noise with (suppress\$4 filter\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S71	38	S67 and microphone and speaker	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S72	79	S68 and microphone and speaker	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33

## EAST Search History

S73	72	S70 and microphone and speaker	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:33
S74	123460	"455"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/15 00:33
S75	31	S74 and (\$4phone with gps with advantage)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/15 00:37
S76	2084	S74 and \$4phone with gps	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/17 17:01
S77	92	(erl or "echo return loss") with attenuat\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:38
S78	51	S77 and(double\$talk "double talk")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:38
S79	27	S77 and ((double\$talk "double talk") with attenuat\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 00:38

## EAST Search History

S80	10	(US-20050246171-\$ or US-20040078104-\$ or US-20030235294-\$).did. or (US-5563944-\$ or US-5646991-\$ or US-6420975-\$ or US-6891954-\$ or US-6873704-\$ or US-6122506-\$ or US-6282176-\$).did.	US-PGPUB; USPAT	OR	OFF	2007/06/15 03:38
S81	2	S80 and (ratio with erl\$2)	US-PGPUB; USPAT	OR	ON	2007/06/15 03:39
S82	1	S80 and (ratio with serl\$2)	US-PGPUB; USPAT	OR	ON	2007/06/15 03:39
S83	2	S80 and (ratio with (serl\$2 erl\$2))	US-PGPUB; USPAT	OR	ON	2007/06/15 04:27
S84	0	S80 and (serle with double\$talk)	US-PGPUB; USPAT	OR	ON	2007/06/15 04:28
S85	0	S80 and (serle with "double talk")	US-PGPUB; USPAT	OR	ON	2007/06/15 04:28
S86	4	erle and failsafe	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/15 05:02